

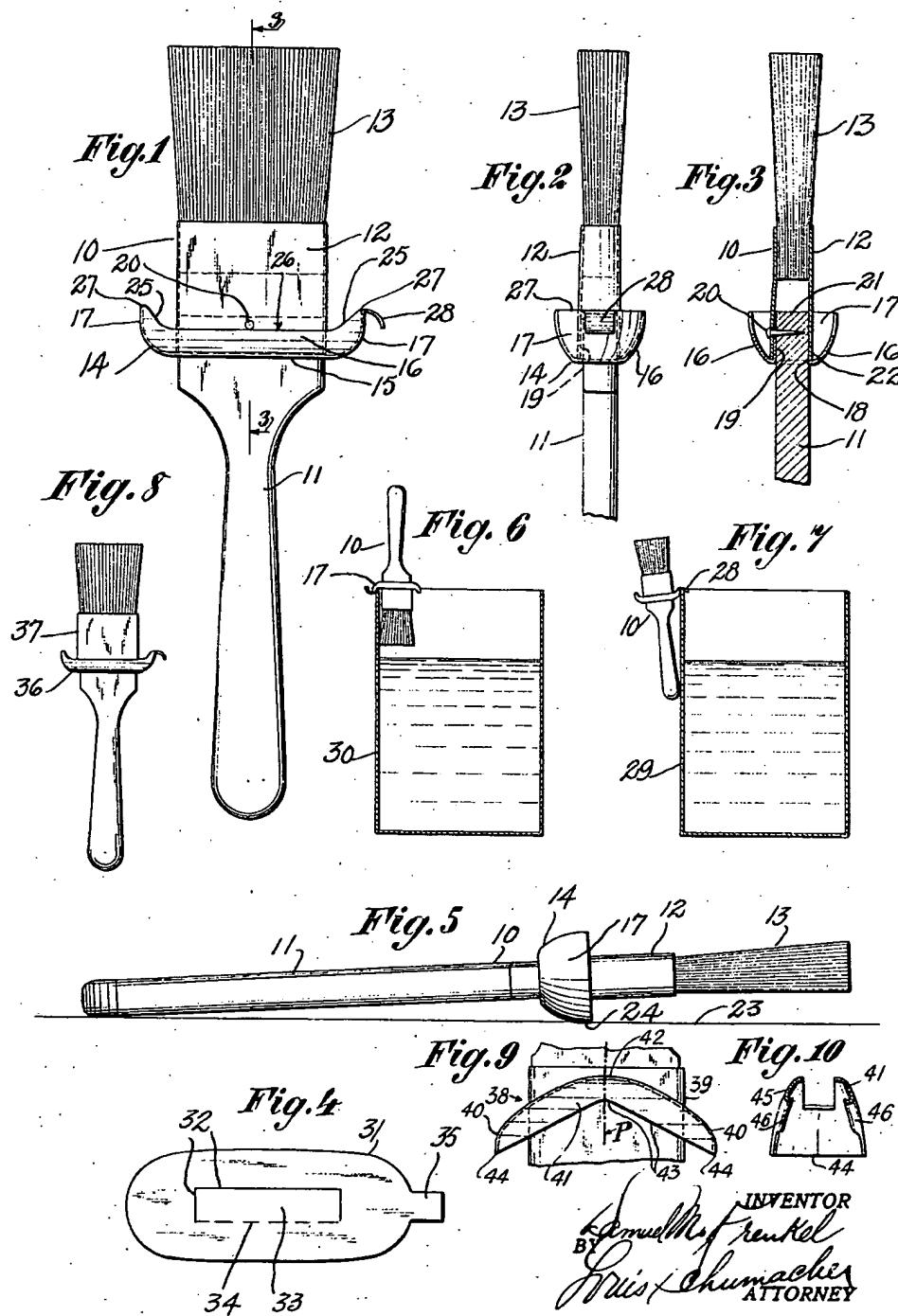
June 17, 1930.

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1,763,696

PAINTBRUSH

Filed Feb. 6, 1930



Patented June 17, 1930

1,763,696

## UNITED STATES PATENT OFFICE

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### PAINTBRUSH

Application filed February 6, 1930. Serial No. 426,231.

This invention relates to paint brushes.

One object of the invention is to provide a device of the character described, including a paint brush having improved protecting means to prevent paint from dripping onto the handle of the brush.

Another object of the invention is the provision of a device of the nature set forth, including an improved paint drip collector which is of simplified, compact and inexpensive construction, and can be permanently connected to a brush coincident with the construction of the same, or made up as a separate unit for efficient and reliable connection to a brush.

Another object of the invention is to furnish a device of the type mentioned including a bristle or hair holding ferrule and a paint drip collector, both of which are constructed and co-ordinated in arrangement for improved and simplified engagement with the handle of the brush.

Another object if the invention is to furnish a sanitary brush of the class alluded to in which the brush includes a paint drip collector engaged therewith in an improved manner whereby the center of gravity of the brush is so disposed that when placed upon a horizontal support, the bristles or hairs of the brush will be spaced out of contact therewith.

Another object of the invention is to provide a paint brush having a paint drip collector which has improved means for supporting the brush on the edge of a can of paint, or other member.

Further objects of the invention are to provide a sanitary paint brush which comprises few and simple parts, is inexpensive to manufacture and assemble, is rugged, reliable, and efficient in use, can be made in many different ways according to the quality, nature or specifications of the brush, and of many different kinds of materials.

This invention may be embodied in brushes having soft hair or bristles, and for various uses, as, for instance, varnishing, white washing, kalsomining, painting of walls or ceilings of plaster, gypsum or other materials, or of metal surfaces, and generally for the ap-

plication of liquids to bodies by means of brushes. The brushes per se may be made of any materials well known in the art, while the paint drip collector can be constructed by stamping, molding, cutting, or otherwise forming and shaping the same. While the said collector is preferably made of metal, it can also be made of fibre, rubber, bakelite, glass, or other composition material.

Other objects and advantages of the invention will become apparent as the specification proceeds.

With the aforesaid objects in view, the invention consists in the novel combinations and arrangements of parts hereinafter described in their preferred embodiments, pointed out in the subjoined claims, and illustrated in the annexed drawing, wherein like parts are designated by the same reference characters throughout the several views.

In the drawing:

Fig. 1 is a view in side elevation of a device embodying the invention.

Fig. 2 is a fragmentary edge view thereof on a smaller scale.

Fig. 3 is a vertical sectional view taken on line 3—3 of Fig. 1.

Fig. 4 is a blank showing a step in constructing the paint drip collector.

Fig. 5 is an edge view showing the sanitary paint brush resting on a horizontal surface.

Figs. 6 and 7 are views showing the paint brush supported in different positions on a can of paint.

Fig. 8 is a view of a paint drip collector made up as a separate member to be applied on any brush.

Fig. 9 is a fragmentary view of a sanitary paint brush having a modified paint drip collector.

Fig. 10 is a sectional view of a further modification of a paint drip collector.

The advantages of the invention as here outlined are best realized when all of its features and instrumentalities are combined in one and the same structure, but, useful devices may be produced embodying less than the whole.

It will be obvious to those skilled in the art to which the invention appertains, that the

same may be incorporated in several different constructions. The accompanying drawing, therefore, is submitted merely as showing the preferred exemplification of the invention.

Generally described, the invention provides a device for preventing paint from dripping from the bristles onto the handle of a paint brush. The said device may be termed a paint drip collector, and can be constructed as a permanent or integral part of a brush or as a separate unit to be applied to any brush. The paint collector is of cup like formation and is positioned externally of the brush in spaced relation to the bristles whereby convenience in painting is assured. It may surround the handle portion of the brush, and it can be of one piece construction. In applying the paint drip collector to a paint brush, it may be swaged or clinched thereon; or engaged therewith by a force fit; or it may be cemented to the brush, or it can be nailed thereto. One form of permanently connecting the paint drip collector consists in providing the same with a tongue which is receivable between the handle and ferrule of the brush and engaged in place coincident with the assembling of the brush, by swaging, cementing, nailing, or the application of pressure. The tongue referred to may also be connected externally of the brush. A single fastening may be used to interconnect the handle, the ferrule, and the paint drip collector. This fastening may be a nail or other device, and the paint drip collector is so shaped as to permit the nail to be driven without obstruction. In the event that there is any overflow in the paint drip collector, the latter is so arranged as to guide such overflow to a portion of the drip collector at an edge of the brush and remote from the operator's hand. When the brush is placed upon a flat surface, the paint drip collector efficiently holds the bristles above and out of contact with such surface. An end portion of the drip collector may act as a hook to engage an edge of a can of paint to support the brush, or any suitable tongue, or both may be provided for this purpose.

Referring in detail to the drawing, 10 denotes a device embodying the invention. The same includes any conventional paint brush, including, for example, a handle 11, and a ferrule 12 connected therewith, the latter holding the hair or bristles 13.

To prevent paint from dripping from the bristles 13 onto the handle 11, a drip paint collector 14 is used which constitutes the device a sanitary paint brush. This drip collector 14 is in the nature of a cup which surrounds the handle or ferrule of the brush to afford uniform protection therearound. The said cup includes a bottom 15, side walls 16 and end walls 17 disposed so that the cup opens toward the bristles. The said drip collector has an opening 18 in the bottom there-

of to receive the brush. Formed adjacent to said opening is a flap or tongue 19. The latter is preferably received between the handle 11 and the ferrule 12.

The handle, the ferrule, and the drip collector may be assembled at the same time and as a unit, whereby the insertion of the tongue 19 is readily accomplished. Any suitable means herein referred to may be used to permanently interconnect the parts. If desired, a fastener such as one or more nails 20 may be driven through the ferrule, the tongue 19 and the handle. Obviously the tongue 19 may also be positioned externally of the ferrule, although the arrangement shown permits a more reliable and uniform engagement, and only a single nail need be used.

It will be noted that the drip protector is so shaped as to permit the nail 20 to be driven without obstruction. It is seen that in certain brushes, particularly of an inexpensive type, the end 21 of the handle 11 terminates in relative proximity to the end 22 of the ferrule, leaving a somewhat limited space for the nail 20. The drip protector must be positioned as near as possible to the bristles so that the brush may be able to lie as in Fig. 5, and to prevent the paint carrying bristles from overweighing the handle of the brush. In other words, the center of gravity must be so related that the bristles will lie spaced above the horizontal surface 23.

By making the side walls 16 relatively narrow, the nail may be driven without obstruction from the drip collector.

By extending the end walls 17 beyond the side walls, the drip collector is brought closer to the bristles 18. Accordingly, as seen in Fig. 5, the point of support 24 is relatively near to the bristles. The drip protector by the above arrangement constitutes a cup having a concave opening.

By merging at 25 the free edges 26 of the side walls 16 into the similar edges 27 of the end walls 17, any overflow of paint in the drip collector will tend to accumulate at the said end walls, and flow therefrom when the brush is tapped slightly in the can of paint. Such accumulation of paint at the ends of the drip collector is remote from the hand of a person holding the paint brush.

It may be noted that the edges 26 form a recess with respect to the edges 27 of the end walls 17 of the drip collector.

Any suitable hook means 28 may be provided on the brush or as an integral part of the drip collector for supporting the brush on an edge of a paint can 29. The end wall portions 17 of the drip collector may also be used as hooks to support the brush on a paint can 30 as in Fig. 6. The hook means 28 may be omitted if desired.

The drip collector may be made of one piece construction, of a single sheet of material as indicated by the blank 31. The

latter is cut into an oval or other form, an opening or angular cut 32 being made therein to provide a tongue 33. The blank may be stamped into cup form and the tongue 33 bent inward into the cup along a line 34 to provide the tongue 19. An extending part 35 may be cut to provide the hook 28. The drip collector may be stamped in a simple, inexpensive and expeditious manner.

In Fig. 8 is shown a modification of the paint drip collector 36, the same being similar to that hereinbefore described, but being free of the tongue 19. This drip collector is retained on a brush 37 by being snugly fitted thereon at an opening similar to that shown at 18.

In Fig. 9 is shown a modification of the invention including a paint drip collector 38 applied in any desired manner to a conventional brush 39. This drip paint collector assures a rapid and reliable flow of drippings therein collected to the ends 40 of the same, at which ends the collection of drippings may be removed in any convenient manner. Thus maximum protection is afforded against the paint creeping over the side walls 41 of the drip collector and onto the handle of the brush.

The drip collector 38 is of V shape in side elevation, the apex of the V being at the central transverse plane P of the brush at the wall 42 and edge 43 of the side walls. Accordingly the accumulation of paint drippings flows from P downward along the inner side surface of the wall 42 and along the edges 43 to the ends 40 of the drip collector, to leave the latter at the points 44.

In Fig. 10 is shown a modification of the paint drip collector of Fig. 9. This paint drip collector 45 is generally similar to 38, but it has a central portion 46 of each of the edges 43 turned inward to further retard any creeping of the paint around the side walls 41 of the drip collector, and to assure that any excess of such drippings will flow to the ends of the drip collector.

The devices shown in Figs. 9 and 10 may be applied to a brush in any manner, for instance, as shown in Figs. 1 to 8.

Various changes and modifications may be made in the invention herein disclosed, the embodiments shown being submitted in an illustrative and not in a limiting sense.

It will thus be seen that I have provided a device which fulfills the several objects of the invention and which is well adapted to meet the conditions of practical use.

I claim:

1. A paint brush having a handle, a ferrule for the bristles engaging a relatively short portion of the handle, a separate concave paint drip collector on the handle spaced at a distance from the bristles to avoid interference with the latter in the normal use of the brush, and being adjacent to

the ferrule engaging portion of the handle, and a fastening means securing together and extending through the handle, the ferrule and a portion of the paint drip collector, said fastening means being positioned at the concave side of the paint drip collector and being accessible at said concave side.

2. A paint brush including a handle, a head, a ferrule, a paint drip cup surrounding the handle, said cup having a connecting flange extending into the ferrule, and fastening means extending through the handle, the ferrule and the flange of the cup.

3. A paint brush, a one-piece cup surrounding the body of the brush and having an integral flange on the interior of its bottom engaging the brush head, said flange extending above the side of the cup to facilitate the driving of fastening means therethrough into said head.

4. A paint brush including a handle, a ferrule, bristles, and a paint drip cup extending about the handle, said cup having a bottom wall of V-shape, the ends of the V being at the side edges of the brush, the side walls of the cup conforming to the V-shape.

In testimony whereof I affix my signature.

SAMUEL M. FRENKEL.

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